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(21) International Application Number: PCT/GB00/00332 (22) International Filing Date: 7 February 2000 (07.02.00) (30) Priority Data: 9902476.2 5 February 1999 (05.02.99) GB (71) Applicant (for all designated States except US): THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW [GB/GB]; University Avenue, Glasgow G12 8QQ (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): DA SILVA MARQUES, Paulo, Vicente [PT/PT]; R. Da Vitoria, 405, P-4050 Porto (PT). BONAR, James, Ronald [GB/GB]; 47 Brodie Park Avenue, Paisley PA2 6JA (GB). AITCHISON, James, Stewart [GB/GB]; 127 Dowanhill Street, Glasgow G12 9DN (GB). (74) Agent: MURGITROYD & COMPANY; 373 Scotland Street, Glasgow G5 8QA (GB).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: BURNER FOR FABRICATING AEROSOL DOPED WAVEGUIDES 		
(57) Abstract <p>A burner for fabricating aerosol doped planar waveguides which includes a plurality of inlet ports (16, 17, 18, 19) each connected to a respective torch conduit (20, 21, 22, 23); said torch conduit connecting its respective inlet feed to a gas mixing region (24); wherein a gas expansion chamber (25) is provided between at least one of said inlet ports (16, 17, 18, 19) and said gas mixing region (24).</p>		